

WEST Search History

DATE: Wednesday, August 06, 2003

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| | | | |
|-----|-----------------------------|--------|-----|
| L13 | 5876995.pn. | 1 | L13 |
| L12 | 576995.pn. | 0 | L12 |
| L11 | 6113886.pn. | 1 | L11 |
| L10 | 6232107.pn. | 1 | L10 |
| L9 | 6458547.pn. | 1 | L9 |
| L8 | 6416960.pn. | 1 | L8 |
| L7 | 6436682.pn. | 1 | L7 |
| L6 | 64 36682.pn. | 908872 | L6 |
| L5 | 6247995.pn. | 1 | L5 |
| L4 | 5876995.pn. | 1 | L4 |
| L3 | transgenic adj plant and L2 | 1 | L3 |
| L2 | 6152358.pn. | 1 | L2 |
| L1 | 6152358 | 3 | L1 |

END OF SEARCH HISTORY

WEST**End of Result Set**☐ **Generate Collection** **Print**

L3: Entry 1 of 1

File: USPT

Nov 28, 2000

DOCUMENT-IDENTIFIER: US 6152358 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

US Patent No. (1):
6152358*disclose P&L uc
does not claim*Brief Summary Text (13):

Systems and apparatus for generating bioluminescence, and combinations of these systems and apparatus with inanimate articles of manufacture to produce novelty items are provided. These novelty items, which are articles of manufacture, are designed for entertainment, recreation and amusement, and include, but are not limited to: toys, particularly squirt guns, toy cigarettes, toy "Halloween" eggs, footbags and board/card games; finger paints and other paints, slimy play material; textiles, particularly clothing, such as shirts, hats and sports gear suits, threads and yarns; bubbles in bubble making toys and other toys that produce bubbles; balloons; figurines; personal items, such as bath powders, body lotions, gels, powders and creams, nail polishes, make-up, toothpastes and other dentifrices, soaps, body paints, and bubble bath; items such as inks, paper; foods, such as gelatins, popcorn, icings and frostings; fish food containing luciferins and transgenic fish, particularly transgenic fish that express a luciferase; plant food containing a luciferin or luciferase, preferably a luciferin for use with transgenic plants that express luciferase; and beverages, such as beer, wine, champagne, soft drinks, and ice cubes and ice in other configurations; fountains, including liquid "fireworks" and other such jets or sprays or aerosols of compositions that are solutions, mixtures, suspensions, powders, pastes, particles or other suitable form.

Detailed Description Text (535):

Plant food, containing a luciferase or luciferin, for use with transgenic plants that express a luciferin or luciferase. For example, transgenic plants that express a luciferase are known [see, e.g., U.S. Pat. Nos. 5,464,758, 5,436,392, 5,432,081, 5,412,085, 5,362,865, 5,268,463, and 5,015,580]. When treated with [i.e., fed] plant food containing a luciferase and other needed components of the bioluminescence generating system, these plants glow.

Detailed Description Text (536):

Plant food containing one or more components of the bioluminescence generating system, preferably a luciferin, is provided herein for administration to transgenic plants that express a luciferase. The plant food containing a luciferin and any necessary activators may be in the form of any composition that is typically applied to a plant to promote or maintain growth [e.g., see U.S. Pat. Nos. 4,016,880, 4,711,659, 4,804,403, 5,547,486, 5,553,853, RE 35,320, and RE 31,801]. The luciferin and any activators may be added directly to the plant food mixture or housed in a separate compartment and added to the plant food immediately prior to use. The plant food may be applied to the soil, sprayed on the foliage of the plant or any combination thereof.

Other Reference Publication (104):

Knight et al., Transgenic plant aequorin reports the effects of tough and cold-shock and elicitors on cytoplasmic calcium, Nature 352(6335): 524-526 (1991).

WEST**End of Result Set**

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US-PAT-NO: 6152358

DOCUMENT-IDENTIFIER: US 6152358 A

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TITLE: Bioluminescent novelty items

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------|---------------|-------|----------|---------|
| Bryan; Bruce | Beverly Hills | CA | 90210 | |

US-CL-CURRENT: 229/87.19; 435/189, 493/955

CLAIMS:

What is claimed is:

1. A combination, comprising:

a) an article of manufacture; and

b) one or more components of a bioluminescence generating system, whereby the combination is a novelty item and wherein the article of manufacture is paper products.

2. A combination, comprising:

a) an article of manufacture; and

b) one or more components of a bioluminescence generating system, whereby the combination is a novelty item and wherein the article of manufacture is selected from among greeting cards, and wrapping paper.

3. The combination of claim 1, wherein the combination comprises a luciferase.

4. The combination of claim 1, wherein the combination comprises a luciferin.

5. The combination of claim 1, wherein the combination comprises a luciferin and a luciferase.

6. The combination of claim 1, comprising a delivery vehicle that comprises least one component of the bioluminescence generating system.

7. The combination of claim 6, wherein a component is a luciferase.

8. The combination of claim 6, wherein a component is a luciferin.

9. The combination of claim 6, wherein the components comprise a luciferin and a luciferase.

10. The combination of claim 6, wherein the vehicle is a liposome.

11. The combination of claim 6, wherein the vehicle is a gelatin capsule.
12. The combination of claim 6, wherein the vehicle comprises micronized particles of the component(s).
13. The combination of claim 6, wherein the vehicle is a time release vehicle.
14. The combination of claim 6, wherein the vehicle is water soluble.
15. The combination of claim 1, wherein the system is selected from among an insect system, a coelenterate system, a ctenophore system, a bacterial system, a mollusk system, a crustacea system, a fish system, an annelid system, and an earthworm system.
16. The combination of claim 1, wherein the bioluminescence generating system is selected from among Aequorea, Vargula, Renilla, Obelin, Porichthys, Odontosyllis, Aristostomias, Oplophorus, Gaussia, firefly, bacterial, Mnemiopsis, Beroe Gonadostomias, Gaussia, Halisturia, Vampire squid, Glyphus, Mycotophid, Vinciguerria, Howella, Florenciella, Chaudiodus, Melanocostus Sea Pens, mollusc, mushroom, fish, insect, ctenophore and annelid systems.
17. The combination of claim 1, wherein the system is selected from among Aequorea, Vargula, Renilla, Obelin, Porichthys, Aristostomias, Odontosyllis, Oplophorus, Gaussia, firefly and bacterial systems.
18. The combination of claim 1, further comprising means for delivering the remaining components of the bioluminescence generating system not present in the combination.
19. The combination of claim 11, wherein the delivering means is selected from among a wand, a sponge, a spray bottle, an eyedropper, cotton and a textile.
20. The combination of claim 1, wherein the article of manufacture comprises paper.
21. The combination of claim 2, wherein the article of manufacture is a greeting card.
22. The combination of claim 2, wherein the article of manufacture comprises wrapping paper.
23. The combination of claim 1, wherein the bioluminescence generating system comprises components derived from a coelenterate.
24. The combination of claim 1, wherein the system is selected from among Renilla Cavarnularia, Ptilosarcus, Stylatula, Acanthoptilum, and Parazoanthus systems.
25. The combination of claim 1, wherein the system is selected from among Chiroteuthis, Eucleoteuthis, Onychoteuthis, Watasenia; cuttlefish, Sepiolina, Oplophorus, Sergestes, and Gnathophausia; Argyropelecus, Yarella, Diaphus, and Neoscopelus systems.
26. The combination of claim 20, wherein the system is selected from among Renilla Cavarnularia, Ptilosarcus, Stylatula, Acanthoptilum, and Parazoanthus systems.
27. The combination of claim 20, wherein the system is selected from among Chiroteuthis, Eucleoteuthis, Onychoteuthis, Watasenia; cuttlefish, Sepiolina, Oplophorus, Sergestes, and Gnathophausia; Argyropelecus, Yarella, Diaphus, and Neoscopelus systems.
28. The combination of claim 20, wherein the bioluminescence generating system is selected from among Aequorea, Vargula, Renilla, Obelin, Porichthys,

Odontosyllis, Aristostomias, Oplophorus, Gaussia, firefly, bacterial, Mnemiopsis, Beroe Gonadostomias, Gaussia, Haliastur, Vampire squid, Glyphis, Myctophid, Vinciguerra, Howella, Florenciella, Chaudiodus, Melanocostus Sea Pens, mollusc, mushroom, fish, insect, ctenophore and annelid systems.

29. The combination of claim 20, wherein the system is selected from among Aequorea, Vargula, Renilla, Obelin, Porichthys, Aristostomias, Odontosyllis, Oplophorus, Gaussia, firefly and bacterial systems.

30. The combination of claim 15, wherein a component of the bioluminescence generating system is derived from a species of Anthozoa.

31. A kit, comprising the combination of claim 1; and instructions for use of the combination.

32. A kit, comprising the combination of claim 2; and instructions for use of the combination.

33. The kit of claim 31, further comprising a cartridge for recharging a component of the bioluminescence generating system.

34. The kit of claim 32, further comprising a cartridge for recharging a component of the bioluminescence generating system.

35. The combination of claim 1, further comprising a cartridge for recharging a component of the bioluminescence generating system.

36. The combination of claim 2, further comprising a cartridge for recharging a component of the bioluminescence generating system.

37. The combination of claim 2, wherein the combination comprises a luciferase.

38. The combination of claim 2, wherein the combination comprises a luciferin.

39. The combination of claim 2, wherein the combination comprises a luciferin and a luciferase.

40. The combination of claim 1, comprising a delivery vehicle that comprises least one component of the bioluminescence generating system.

41. The combination of claim 40, wherein a component is a luciferase.

42. The combination of claim 40, wherein a component is a luciferin.

43. The combination of claim 40, wherein the components comprise a luciferin and a luciferase.

44. The combination of claim 40, wherein the vehicle is a liposome.

45. The combination of claim 40, wherein the vehicle is a gelatin capsule.

46. The combination of claim 40, wherein the vehicle comprises micronized particles of the component(s).

47. The combination of claim 40, wherein the vehicle is a time release vehicle.

48. The combination of claim 2, wherein the system is selected from among an insect system, a coelenterate system, a ctenophore system, a bacterial system, a mollusk system, a crustacea system, a fish system, an annelid system, and an earthworm system.

49. The combination of claim 2, wherein the bioluminescence generating system is selected from among Aequorea, Vargula, Renilla, Obelin, Porichthys, Odontosyllis, Aristostomias, Oplophorus, Gaussia, firefly, bacterial, Mnemiopsis, Beroe Gonadostomias, Gaussia, Haliastur, Vampire squid, Glyphis,

Mycetophid, Vinciguerria, Howella, Florenciella, Chaudiodus, Melanocostus Sea Pens, mollusc, mushroom, fish, insect, ctenophore and annelid systems.

50. The combination of claim 2, wherein the system is selected from among Aequorea, Vargula, Renilla, Obelin, Porichthys, Aristostomias, Odontosyllis, Oplophorus, Gaussia, firefly and bacterial systems.

51. The combination of claim 2, further comprising means for delivering the remaining components of the bioluminescence generating system not present in the combination.

52. The combination of claim 2, wherein the bioluminescence generating system comprises components a coelenterate.

53. The combination of claim 2, wherein the system is selected Renilla Cavarnularia, Ptilosarcus, Stylatula, Acanthoptilum, and Parazoanthus systems.

54. The combination of claim 2, wherein the system is selected Chiroteuthis, Eucleoteuthis, Onychoteuthis, Watasenia; cuttlefish, Sepiolina, Oplophorus, Sergestes, Gnathophausia; Argyropelecus, Yarella, Diaphus, and Neoscopelus systems.

55. The combination of claim 2, wherein a component of the system is derived from a bioluminescence generating system selected from among an insect system, a coelenterate system, a ctenophore system, a bacterial system, a mollusk system, a crustacea system, a fish system, an annelid system, and an earthworm system.

56. The combination of claim 2, wherein a component of the bioluminescence generating system is derived from a species of Anthozoa.

57. The combination of claim 2, wherein a component of the bioluminescence generating system is in or on the surface of the article of manufacture.

58. The combination of claim 1, wherein a component of the bioluminescence generating system is in or on the surface of the article of manufacture.